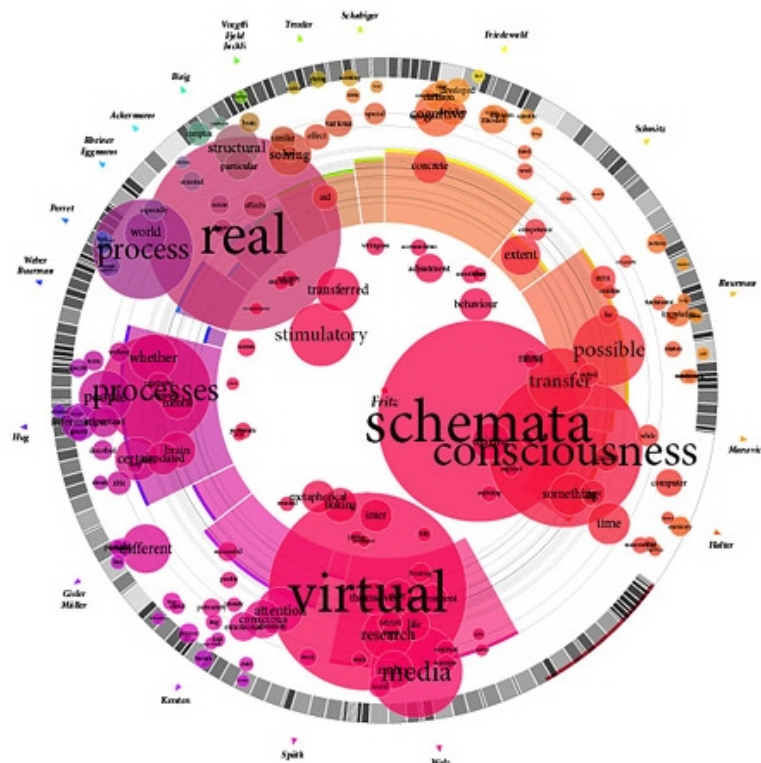


Data Visualization

A data visualization is related to, but more sophisticated than a Excel-style graph. A graph is merely a display of data. Whereas, a data visualization portrays the same sort of data, but having been transformed by interpretation and analysis. A graph is data, a visualization is data made into knowledge.



For this exercise, we will be using data on America's wars to create informative visualizations. Some of the data you will need is not readily available; therefore this exercise will require extrapolation, estimation, and inference.

For example, if you were asked to provide the public with insight and knowledge on the material value of education, you might look for data on average annual income--over time--compared to years of education. But you want this graphic to be only about people in Cary, NC. You are unable to find this data. However, you do find data covering North Carolina, in general, and another dataset that provides information for larger suburbs across the US. You can estimate the data for Cary, by extrapolating from the evidence you do have.

The Assignment

You are to look for data, in the following areas, for the wars your group was assigned (this is a group project):

- Duration of war (in days)
- Number of combatants involved (militia, reserves, Army, Navy, Marines, Air Force, guerrillas, etc.--anyone involved in the fighting) for all nations fighting (use the peak/highest number)
- Total populations of the nations, states, territories, tribes involved--at the onset of the war.
- Number of casualties
 - killed
 - wounded
 - dying from disease
 - POW
 - MIA
- Civilians killed--as a result of the war
- Square miles of territory involved in the war
- Number of states/nations/tribes involved
- Pre- and post-war value of a dollar--should be given as constant dollars, i.e. the value relative to currency of a particular year.
- GDP of US pre-, during, and post-war. (constant dollars)
- Cost, to US, of war (constant dollars)
- Value of the property destroyed--e.g. buildings, furnishings, crops, forest, livestock, etc. (constant dollars)
- Other data you deem fit in order to create an informative, cohesive, and convincing visualization.

Use round numbers, to the second digit. So, if the figure is 2,134,459, it should be written as 2,100,000; if it's 319,000, it should be recorded as 320,000.